Mike Danifo

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SDET | SOFTWARE ENGINEER IN TEST | QA AUTOMATION ARCHITECT | AI-ASSISTED TESTING | PLAYWRIGHT · PYTHON · APPIUM

PROFILE

SDET and Software Engineer in Test who builds automation that engineers trust, and uses AI to build it faster than a team could by hand. Twenty years in software quality, including nearly eleven at Comcast and three at Genesys.

Core Skills: Playwright & Pytest | AI-Assisted Test Generation | Appium & Mobile | REST API & Contract Testing | SQL & Data Validation | CI/CD | Test Strategy & Team Leadership

CAREER EXPERIENCE

OnTheClock · Remote
Senior QA Automation Engineer · *Jun 2026 – Present*

Sole quality engineer for a workforce-management SaaS, owning test strategy, automation and release gates.

- Built a 1,081-case test library from zero across 24 functional areas and automated 279 cases with Playwright, Pytest and Appium on web, iOS and Android.
- Manage the test infrastructure as code in AWS CDK (ECR, ECS, Fargate, S3, EC2); the suite runs in Docker on Fargate from an image GitHub Actions builds and pushes to ECR.
- Extend the web and mobile apps' GitHub Actions build and deployment workflows to run automated tests, and use GitHub Copilot for AI-assisted code review on pull requests.
- Caught 70 defects through automation, 92% of all automation-found defects logged company-wide, with one false alarm, and ran 4,232 executions across 69 release cycles.
- Drafted 67% of the library with Claude Code, requiring each generated test to prove it can fail; built a Claude and MCP test-impact agent.
- Reproduced a kiosk lockout outage the day assigned, measured 2,487 rate-limited requests from 13 sign-ins in 150 seconds, and caught a gap in the proposed fix.
- Convened and ran the go/no-go and late-evening deployment of an expedited payroll release, through a same-session rollback when live testing caught defects; no customer affected.
- Own the Quality Engineering Strategy, adding deployment frequency and change failure rate; built 3 reports that rebuild themselves from Jira, Zephyr and GitHub.

Independent Projects · github.com/mdanifo
Python and AWS Services · *May 2026 – Present*

- Defined a web app's AWS stack in Terraform (App Runner, Fargate, ECR, DynamoDB, IAM, SNS), applied from GitHub Actions through OIDC; other services deploy as SAM stacks.

Consulting Engagements · Remote
Senior SDET / Test Automation Architect · *Oct 2025 – Jun 2026*

Contract engagements through Protek Consulting and Akkodis Consulting.

CGI Federal, Medicare prescription drug benefit application for CMS.

- Architected a data-driven Python backend test framework from scratch for microservices and REST APIs.
- Increased functional API test coverage by 60% using AI tools to generate parameterized, data-driven tests.
- Integrated a Dockerized test container into CI on AWS CodeBuild, ECS/ECR, Batch, and CloudFormation.

HealthEdge, healthcare claims adjudication.

- Tested production claims transactions and introduced AI-enabled failure analysis to find defects faster.

Genesys
Senior Software Test Automation Engineer · *Jun 2022 – Sep 2025*

- Led a team of 6 quality engineers, associate to senior, with career plans that led to promotions.
- Designed the backend automation strategy and Python/pytest framework, lifting coverage 25% to 80%.
- Delivered functional, API-contract, and performance testing for a data integration: 100+ automated tests.

NextGen Healthcare · Remote
Senior Staff QA Engineer / Test Automation Architect · *Apr 2021 – Jun 2022*

- Led Virtual Visits Telehealth testing, cutting escaped defects 50% and raising coverage 75%.
- Designed a Java automation framework using Cucumber, Selenium, and RestAssured.

American Family Insurance (via SQA Group) · Remote
Senior Test Automation Engineer / QA Architect · *Sep 2020 – Apr 2021*

- Led a team of 15 onshore and offshore automation engineers on UI and API automation delivery.
- Designed an API automation framework using Python, BDD, and behave, run from GitLab CI/CD.

Sidecar · Philadelphia
Senior Test Automation Engineer / Test Architect · *Nov 2017 – Jun 2020*

- Scaled a Quality Engineering function from the ground up, leading and mentoring a team of automation engineers (initially 6), and helped 3 grow into leadership and senior roles.
- Designed a unified Python, pytest and Selenium framework for UI and backend testing on AWS.

Comcast · Philadelphia
Principal QA Engineer to Senior Test Automation Engineer · *2006 – 2013, 2014 – 2017*

Senior Test Automation Engineer · *Feb 2016 – Nov 2017*

- Mentored a team of automation engineers, and designed developer-portal UI automation in Python, BDD and Selenium on Jenkins Declarative Pipeline CI/CD.

Senior Web Services Test Automation Engineer · *Apr 2014 – Mar 2016, via Turnberry Solutions*

- Designed a keyword-driven Robot Framework suite in Python for the Xfinity MyAccount and Share APIs.

Principal QA Engineer · *Jan 2006 – Apr 2013*

- Designed a Java and TestNG framework, and stood up CI/CD with TeamCity, Jenkins and Sonar.

TECHNICAL SKILLS

- **AI Testing:** Claude Code, GitHub Copilot, AI-assisted test generation, agentic workflows, MCP
- **Automation:** Playwright, Selenium WebDriver, pytest, Cucumber, behave, RestAssured, Postman
- **Mobile:** Appium, XCUITest, UiAutomator2, iOS, Android, BrowserStack
- **Languages & Data:** Python, Java, SQL, Bash, REST APIs, contract testing, PostgreSQL, MySQL, ETL
- **CI/CD & Cloud:** GitHub Actions, Jenkins, GitLab CI, AWS (CodeBuild, ECS/ECR, Fargate, EC2, S3), Docker, Kubernetes
- **Infrastructure:** Infrastructure as Code (IaC), Terraform, AWS CDK, CloudFormation, AWS SAM
- **Leadership & Tools:** Mentorship, quality strategy, executive reporting, quality gates, Jira, Zephyr Scale

EDUCATION

B.A., Management Information Systems, St. Joseph's University, Philadelphia, PA